

Qy 585 TCGGAGCTGCTTATACCTCCAGTGGCCATGACCGGTATCAGTTCCTTAGAGAGCAA 644
Db 564 TCGAAGTATGTTGTATCTTCTGCTGGTATGATCGGTTGCACTTGTAAAGAGGCGA 623
Qy 645 CTAAAGTCGTTAGGATGCTTTGGGAGCTTCAAGCTTCTCGAGGAGAAACCGCGCCAG 704
Db 624 TGAAGATCGTGAAGACCCATCTTGGAACTTTTGGCTTGTGGAGGAGAGACTCCACAG 683
Qy 705 TGAATAGACAAGTTTGGTGGTGTACATGGAGCGGTTTTACTTGAAGGTGCATCCCT 764
Db 684 GTATCGTGGACAAATTGGTGGTCAAGTGGAGCGGTTTTACTTAAAGGTTCTATCCAC 743
Qy 765 CAGGTGTGTGGGAGGCGTGAAGGGTGGTGGAGGGAGGGTCCCTCCAGGGATGCTCC 824
Db 744 AGAGCGTAATAGAAGCGGTGAGGATCTCGTGGAGCGGTTGTCTCCGCTTTAGTCC 803
Qy 825 TATCGAGAGAGCGGTGGCAAGCCATTTGTCAAGAGGAGACCCATAACGAGCAAGAGG 884
Db 804 TATCGAGAGTGGTGGCAATCTCTCGAGACGATTCGATCCATCAG---CAAAGAG 860
Qy 885 GTATGAAGCGAAGCTCCGAGGGGAGCAATGCCATGAGGTTGGTGAAGTGGAGGAAA 944
Db 861 GATGAAGCAAGCCGTCGCGGAGGCAATGCCCTGCCCTCTTTGAATTCAGAGAGA 920
Qy 945 ATTACAGCTTCAAGCAGTATTGTAGTGGAAAGGATTCTG-----AGAAG 989
Db 921 ATTACAAATTCCTGACTAGTCAATCCCAAGGCCACCGGCCCGAGCGCCAGAGG 980
Qy 990 GTATGGGTGCTTTGTAGGACTTGAAGCAAGCTTTAGGAGCGTGGAGCGGTGTATG 1049
Db 981 GATGAAGCGCTTTATAGATGAATCAAGGAGAGTTTAAAGTGTGGAGCATGTTTATG 1040
Qy 1050 TGTGACCGCGCTTTGTGGGTATTTGGGTGGGTGAGAGCAAGCTTCCGGCATGCCCC 1109
Db 1041 TGTGACATGCTTTGTGTGATATTGGGTGGCTTCCGCGCAGGTGCTGCTTCCCTG 1100
Qy 1110 AGGTGAAGTGTGCTCACTCCGAAGCTGTCAATGGACTAAATTTGCAATGAAGGATTAG 1169
Db 1101 AGGCAAGTGTGATTCAGCGAGCTTTTACCAGGCGTGCAGATGAAGTGGAGATTGG 1160
Qy 1170 CGGTGGATAGATCGTCAGTACCGAGTGTGGACTGGTGACCAACACCTGCTCACCTTT 1229
Db 1161 CGGTGGATAGATGTTCTTCATAGGTGGGCTGTCTCCGCGGAGAGGCTGAGAGAGA 1220
Qy 1230 TGTACGAGGGGCTCCACTCCGCTTTGGAATCTGGGCTATTGACGCTTTAAGGTTGAG 1289
Db 1221 TGTACGAGGAGCTTCTGCTCATTTGGAAGGTTGGGCTGACGCTTTAAGATTGAG 1280
Qy 1280 TTATCACTTGTCTGAGATGCTATCCGAGGAATACGTTGGCTGTGTGAGCTAGCCAAAG 1349
Db 1281 TTATCACTTATTGAGATGTTGTGTGAAGACTTGGAGGAGAGTGGATTGGCAAGG 1340
Qy 1350 CTATATCAAAAGCGCTCACTGCTTGGTGAAGAGCAATTTCAAGGCAATGGGTCATTG 1409
Db 1341 CATATTAAGCAATGACCAATCAATAAATAAATTTTAAAGGAAATGGAGTCATTG 1400
Qy 1410 CGAGCATGAGCATTGTAATGACTTCTTCTCTGTTACCGAAGCCATAGCCCTTGGGC 1469
Db 1401 CAAGTATGAGCAATTTGAAGCACTTCTGTTCTTGGCAGGAGTATCTCTTGTGTC 1460
Qy 1470 GGTATGAGATGATTTTGGTGCAGTATCCCTCTGGAGATCCAAATGGCAGTATTGGC 1529
Db 1461 GTGTGTGTGATGACTTTTGGTGCAGGAGCTTCTGGTGTATCCAAAGCAAGTGTGGC 1520
Qy 1530 TCCAGGTTGTGACATGCTGCACTGTGCTACACAGCTTGTGGATGGGAAATTTTATTC 1589
Db 1521 TCCAGGATGTGACATGCTTCAATTTGCCAAGCAGCTTGTGGATGGGAACTTCATCC 1580
Qy 1590 AGCGGATGGGACATGTTCCAGTCCACTACCTTGTGGCAATTCATGCGGCTCTA 1649
Db 1581 AGCTGACTGGGATGATGTTCCAACTCCAGCAGCTTGTGGCTTCTCATGCTGCTCTC 1640
Qy 1650 GGCCATCTCTGGTGGACAGTTTACCTTACTGATGTTGTGGAAAGCACAATTCAGT 1709

Db 1641 GAGCCATCTCTGGTGGCCGATCTATGTTAGTGATTCTGTGGAAAGCAATACTTTGATC 1700
Qy 1710 TGCTCAAGAGCTCGCTTTGCTGATGGGACGATTTTGGTGTCAACACTATGACTCC 1769
Db 1701 TTCTGAAAAAAGTAGTGCTTCTGATGGATCGATCTTCGAGTGAGTACTATGACTCC 1760
Qy 1770 CCACACGAGACTGTTGTTTGAAGACCTTTGCATGATGGGAAGCAATGCTCAAAATTT 1829
Db 1761 CGACTGGCATTGTTGTTTGAAGACCTTTGCATAATGGAGAACTATGCTTAAGATTT 1820
Qy 1830 GGAATCTCAACAAATATACAGTGTGTTTGGGTCTATTAAATGCCAAGGAGGTGGTGGT 1889
Db 1821 GGAATCTCAACAAAGTTCAGTGGAGTGTGTTGTCATTCACTGCCAAGGAGAGGATGGT 1880
Qy 1890 GTCCCGTAAGTAGGAGAAACAGAGTGCCTCTGAATTTTCACAACTGTGACATGCTTAG 1949
Db 1881 GTCTGAGACAGCGCGCAACCAATGCTTTTCAAACTACTCAAAAGAGTACATCCAAA 1940
Qy 1950 CGATCCTCAAGACATTGAATGGAGCAATGGGAAAGGCCAATATGATAAAAGGATGA 2009
Db 1941 CTAACCCAAAGACATAGATGGCAGCTGGAGAAAGCCATCTATCTTATGAAGGCTTA 2000
Qy 2010 ATGTGTTGTCTGTATTTGTTCAAGGACCAAACTAAGCTCATGAAGGCATCAGAGA 2069
Db 2001 AAACCTTTGGCTTACTCTATCAAGCCAAAGAACTATCTCTTCAAGGCCCTCTCAAG 2060
Qy 2070 AATTGGAAGTTTCACTTGAGCCATTACTTTTGAGCTATTGACAGTGTCTCCAGTGATTG 2129
Db 2061 ATCTGACATAGCTCTTGACCCATTGCAATTCGAGCTCATCTGTTTACCAAGTACCA 2120
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Qy 2190 GTGTGCCATTCACTCCAGGATTTGACAACCATAGATGTGTCAAAATTGGGGTTA 2249
Db 2181 GTGGAGCATCCAACTCTGTGAGATGACGATGACCTAAGCTCAGTGGAGTGGTGTCA 2240
Qy 2250 GGGGTTGTGGGAGATGAAGGTGTTTGCATCAGAGAAACAGTTAGTTGCAAACTAGATG 2309
Db 2241 AAGGGTGTGGTGGAGATGCGAGTATTGTCATGAAAAACCAAGGCTTGTGCTATTGATG 2300
Qy 2310 GGGTAGTTGTAATAATTTGATTATG---AGGATAAATGCTGAGAGTGCAAGTTCCCTGGC 2366
Db 2301 GGGAGGATGTTGGGTTCAAGTATGATCAGGACCAATGTTGGTGGTTCAAGTGCCATGGC 2360
Qy 2367 CTAGTGCTTCAAAATTG 2383
Db 2361 CAATTGATTCTTCATCG 2377

RESULT 4

US-09-425-055-23

; Sequence 23, Application US/09425055

; Patent No. 6891084

; GENERAL INFORMATION:

; APPLICANT: OSUMI, CHIEKO

; APPLICANT: NOZAKI, JINSHI

; APPLICANT: KIDA, TAKAO

; TITLE OF INVENTION: RAFFINOSE SYNTHASE GENE, METHOD FOR PRODUCING RAFFINOSE, AND TRAN

; TITLE OF INVENTION: PLANT

; FILE REFERENCE: 001010440CONT

; CURRENT APPLICATION NUMBER: US/09425,055

; CURRENT FILING DATE: 1999-10-22

; PRIOR APPLICATION NUMBER: PCT/JP97/03879

; PRIOR FILING DATE: 1997-10-24

; PRIOR APPLICATION NUMBER: JP 9-111124

; PRIOR FILING DATE: 1997-04-28

; PRIOR APPLICATION NUMBER: US 08/846,234

; PRIOR FILING DATE: 1997-04-28

; PRIOR APPLICATION NUMBER: JP 8-198079

; PRIOR FILING DATE: 1996-07-26

PRIOR APPLICATION NUMBER: JP 8-107682
PRIOR FILING DATE: 1996-04-26
NUMBER OF SEQ ID NOS: 30
SOFTWARE: Patman version 3.1
SEQ ID NO 23
LENGTH: 2780
TYPE: DNA
ORGANISM: Glycine max cv. Clark63
FEATURE:
NAME/KEY: CDS
LOCATION: (136)..(3405)
OTHER INFORMATION:
US-09-425-055-23

Query Match 10.0%; Score 249.4; DB 3; Length 2780;
Best Local Similarity 48.6%; Pred. No. 8.2e-67;
Matches 981; Conservative 0; Mismatches 962; Indels 75; Gaps 8;

Qy 266 GGTGCTTCGTGGCTTCCACGGGACGACCCAGAACCCGACACGTGGCTTCCTGGGG 325
Db 279 GGTGCTTCTGTGGTGGCAGCTTCCACAGCAAAAGTCTCCATGTGTTCCATGGGT 338
Qy 326 AAGCTCAGAGGAATAAAATCATGACATATTCGGTTTAAAGTGTGGTGGACCACTCAC 385
Db 339 GTTTAGAGGGCTCCGGTTCATGTGTTTCTGTTCAAGTTATGTGTGAGTCACTCAG 398
Qy 386 TGGTTCGGTAGCAACGGACAGCACTGGAGCAGGACACAGATGATGCTTCTCGACAA 445
Db 399 AATAAGGAACTTGTGGAGGGATGTTCTCTGGAGACTCAATTCATGCTATTAGAGAC 458
Qy 446 AAGGACC-----AGCTCGGACGCCCTTGTGTTGATTCCTCCGATC 487
Db 459 AAGAGAGTGAAGCTGATGGGGAGAATTCTCCATCATCTACACTGCTCTGCTCTCTC 518
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Db 519 CTCAAGCTCAATTCGAGCTGTTCTTCAAGCAATGACAAGAGAGATAGAGATTTC 578
Qy 548 ATGAGAGAGGGGTGACACGTGCTGTGGCTCCAGCTTCGGAGCTGCTTATACGTCCAC 607
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Qy 608 GTTGCCATGACCCCTATCAGTCTTAGAGAAGCACTAAAGTGTGTTAGGATGCAATTG 667
Db 639 GTTGGACCAATCCCTTTGAAGTCATCAATCAGCTGTCAAGGCTGTGGAAGAACATG 698
Qy 668 GAGAGCTTCAAGCTTCTGAGGAGAAACCGCGCAGTGATCATAGCAAGTTTGGTTGG 727
Db 699 CAATCTTTTCTCATCGTGAGAAGAAAGTTGCCATCTGTCTTGAAGTGGTTGGATGG 758
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Db 759 TGAACATGGGATGCTTCTATACGTGTCACAGCTGAGGGTGTGAGGAAGGCTGAAA 818
Qy 788 GGGTGTGGAGGAGGGTGCCTCCAGGATGCTCTAATCGACGAGGGTGGCAAGCC 847
Db 819 ATCTATCACAGGAGGTACACCTCCAGGATCTCATAGATGATGGTGGCAACAG 878
Qy 848 ATTTGTACGACGAGGACCCATAACGACCAAGAGGATGAAGCAACCTCCGACGG 907
Db 879 ATTGAATAAAGCAAAGGATGCTACTGAATGTTGG-----TACAAGAAGA 926
Qy 908 GAGCAATGCCATGACGGTTGGTGAAGTGGAGGAAATTAACAATTACAGCATGTTGT 967
Db 927 GCAAGATTGCTACTAGGTGACTGGTATTAAGAGAAATACTAAATTTCAAAGAAATTA 986
Qy 968 ATGGGAAGGATTCTGAGAAGGGTATGGGTGCCCTTGTAGGACTTGAAGCAACATTT 1027
Db 987 CAGAACATGACGAGATGTCAGGTCTGAAGCATCTAGTACATGGAGCAAG---CAGCAT 1043
Qy 1028 AGGAGCGTGGAGCAGGTGATGTGTGGACGGCTTGTGGGTATGGGTGGGTGAGA 1087
Db 1044 CACATGTGAAAAATGTATGTATGGCATGACTAGCTGTTATTGGGTGGAGTGAAG 1103

Qy 1088 CCCAAGGTTCCGGCATGCCCCAGGCTAAGGTTGTCA-----CTCCGAAGCTGTCCAT 1141
Db 1104 CCAGCAGCAACCGCATGGAACATTATGACACTGCCCTGGCATATCCAGTGCAGTCACCA 1163
Qy 1142 GGACTAAATTTGACATGAAGGATTAGCGGTGGATAAGATCGTCAGTAACGAGTTGGA 1201
Db 1164 GCGGTGTAGGAACCAACACGACATTTGTCATGGACAGCTTGGCTGTACATGGCTTGGC 1223
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Db 1224 CTAGTGCACCCAAAGAGGTTTCAATTTCACACAGGCTCCATGCTTACTTAGCTTCT 1283
Qy 1262 GCGGTATTGACGTTTAAAGTTGACGTTATACATTGCTCGAGATGCTATCCGAGSAA 1321
Db 1284 TGTGAGTATGAGTGAAGGTTGATGTCAGAACATTATTGAGACCTTGGTGGCGGA 1343
Qy 1322 TACGTTGGCGTGTGAGCTAGCCAAAGCTTATTACAAAGCGCTCACTGCTTGGTGAAG 1381
Db 1344 CATGTTGGCGAGTGTCACTTACTCGCAGTATCATCAGCGCTTGAAGGCTTCCATTGCT 1403
Qy 1382 AAGCATTTCAAAGGCAATGGGCTCATTGGAGCATGGAGCAATTGTAATGACTTCTTTCTC 1441
Db 1404 AGCAATTTACTGATAACGGATGCATTGCGTGTATGTGTACAAACACTGA---TGGACTT 1460
Qy 1442 CTGTTACCAAGCATAGCCCTTGGCGCGTAGGAGATGATTTTGTGCACTGATCCC 1501
Db 1461 TATAGTCTAAGCAGACTGCTATTGAGAGCTTCTGATGATTTTACCTCGTATCCT 1520
Qy 1502 TGTGAGATCCAAATGGCAGCTATTGCTCCAGGGTGTGACATGGTGCATGTGCTTAC 1561
Db 1521 GCTTCCATACCATCCATATTCTTCTGT-----TGATAC 1556
Qy 1562 AACAGCTTGTGGATGGGAAATTTTATTCAGCGCGGATTGGACATGTTCCAGTCCACTCAC 1621
Db 1557 AACTCACTATTCTTGGAGAAATCATGCAACTGACTGGGACATGTTTCAATGTTTACAC 1616
Qy 1623 CTTGTGCGCAATTCATGCGCTCTAGGCGCATCTCTGTTGAGGACAGTTTACGTTAGT 1681
Db 1617 CCAGCAGAGATTATCATGTCAGCTCGTCAATTGGTGGATGCTCTATTATGTTAGT 1676
Qy 1682 GATTGTGTTGAAAGCACAATTCAGTGTGTCAAGGCTCGCTTGTGCTGATGGGAGG 1741
Db 1677 GACAAGCCAGCAATCACAATTTGATCTTCTTAAGAGCTGGTTCTCCCGATGGTTGG 1736
Qy 1742 ATTTTGGCTGTCAACATATGCACTCCCCACAGAGACTGTTGTTTGAAGACCCCTTG 1801
Db 1737 GTTCTCCGTCTCAGTTACCTGGCAGGCCAAGCTGATTTCTTATTGTTGGATCCAGCC 1796
Qy 1802 CATGATGGGAGCAATGCTCAAAATTTGAAATCTCAACAATATACAGGTGTTTGGGT 1861
Db 1797 AGAGATAGGACTAGCTGCTCAAAATATGAACTGACAAATGCTCTGAGTGTGTGT 1856
Qy 1862 CTATTTAATGCAAGAGGTTGGTGTGCTCCGTAAGTGGAGCAACAGATGCTCT 1921
Db 1857 GTATTTAATGCAAGGTTGCTGGATGTTGCAAGATAGAGAAAGAACCCGATCCATGAT 1916
Qy 1922 GAATTTTCAAACTGTGACATGCTTAGGAGTCTCAAGCAATGATGGAGCAATGG 1981
Db 1917 ACATCTCTGTACACTCACCGCTCTGTCTGAGCTTGTGAGCTGCTC----- 1970
Qy 1982 AAAAGCCCATATGATATAAAGGATGAATGTGTTGCTGATATTTGTTCAAGGACCA 2041
Db 1971 ACACAGTACGAGTGTGAATGCTTGAAGATACATTTTATGCTTACAGATCAGGT 2038
Qy 2042 AAATTAAGCTCATGAAGGCTCAGAGAAATGGAAGTTTCACTGAGCCATTACTTTT 2101
Db 2031 GAGGTGATTCGGCTACCAAAAGGGTTTCAATTCAGTGAACATAAAGTTCTGGAGTTT 2090
Qy 2102 GAGCTATTGACAGTGTCTCCAGTATGTGCTGCAAAAAGTTAATTAATTTGCTCCA 2161
Db 2091 GAGCTTTTCCACTTCTGTCCAATCAAGAAATAGCTCCAAGTATATC---ATTGACGA 2147

RESULT 6
US-08-232-463-14/a
; Sequence 14, Application US/08332463
; Patent No. 5678947
; GENERAL INFORMATION:
; APPLICANT: BOHNER, F.
; APPLICANT: SCHRIEFLINGER, F.
; APPLICANT: SALKNER, F. G.

[illegible]